

United States of America
Department of Transportation -- Federal Aviation Administration
Supplemental Type Certificate

Number SA01389WI

This certificate issued to

Garmin International, Inc.
1200 East 151st Street
Olathe KS 66062

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 23 of the Federal Aviation Regulations.

Original Product - Type Certificate Number: A47CE
Make: Diamond Aircraft Industries, GmbH
Model: DA 40, DA 40F

Description of Type Design Change: Installation of the Garmin GFC 700 Automatic Flight Control System in the Diamond DA 40 / DA 40F Aircraft in accordance with (1) Garmin Master Drawing List 005-00336-01, Revision B, dated June 8, 2006 and (2) Garmin Document No. 190-00492-00, FAA Approved Airplane Flight Manual Supplement, dated June 8, 2006, or later FAA Approved Revisions to (1) or (2).

Limitations and Conditions:

1. DA 40 and DA 40F aircraft equipped with a G1000 Integrated Avionics system per STC #SA01254WI and Diamond Aircraft Optional Aircraft Modification (OAM) 40-226 are eligible for this STC.
2. The modified aircraft must be operated in accordance with the applicable Airplane Flight Manual Supplement (AFMS) identified on the MDL.
3. The modified aircraft must be maintained in accordance with the applicable Instructions for Continued Airworthiness (ICA) identified on the MDL.
4. Compatibility of this design change with previously approved modifications must be determined by the installer.
5. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

(See Continuation Sheet)

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: September 28, 2005

Date reissued:

Date of issuance: June 08, 2006

Date amended:

By direction of the Administrator

Original signed by Harvey E. Nero

(Signature)

Harvey E. Nero
FAA Program Manager
Wichita Aircraft Certification Office

(Title)



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(Continuation Sheet)

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Date of Issuance: June 08, 2006

Certification Basis: With respect to the modifications of this STC, the applicant has complied with the following certification basis:

a. The type certification basis for Diamond DA 40 and DA 40 F airplanes is shown on TCDS A47CE for parts **not changed or not affected** by the change.

b. The certification basis for parts **changed or affected** by the change since the reference date of application, September 28, 2005, is based upon Part 23 as amended by Amendment 23-55. The certification basis for this modification was determined to be:

Regulations at the latest Amendment 23-0 through 23-55.

14 CFR Part	Amendment	14 CFR Part	Amendment
§ 23.1	23-34	§ 23.867(a)(b)	23-49
§ 23.29(a)(b)	23-21	§ 23.1301(a)(b)(c)(d)	23-20
§ 23.143(a)(b)(c)	23-50	§ 23.1309(a)(b)(c)(d)(e)(f)	23-49
§ 23.301(a)	23-48	§ 23.1311(a)(b)(c)	23-49
§ 23.303	-	§ 23.1321(a)(c)(e)	23-49
§ 23.305(a)(b)	23-45	§ 23.1322(a)(b)(c)(d)(e)	23-43
§ 23.307(a)	-	§ 23.1327(a)(b)	23-20
§ 23.395(a)(1)	23-7	§ 23.1329(a)(b)(c)(d)(e)(f)(g)(h)	23-49
§ 23.397(a)(b)	23-45	§ 23.1335	23-20
§ 23.561(a)(b)	23-48	§ 23.1351(a)(g)	23-49
§ 23.601	-	§ 23.1353(h)	23-49
§ 23.603(a)(b)	23-23	§ 23.1357(a)(b)(c)(d)	23-43
§ 23.605	23-23	§ 23.1359(a)(b)(c)	23-49
§ 23.607	-	§ 23.1365(a)(b)(d)(e)	23-49
§ 23.609(a)(b)	-	§ 23.1367(a)(b)(c)(d)	-
§ 23.611	-	§ 23.1381(a)(b)	-
§ 23.613(a)(b)(c)	23-45	§ 23.1431(a)(b)(e)	23-49
§ 23.625(a)	23-7	§ 23.1525	23-45
§ 23.671(a)	-	§ 23.1529	23-26
§ 23.677(a)(d)	23-49	§ 23.1541(b)(1)	23-21
§ 23.685(a)(b)(c)(d)	23-17	§ 23.1555(a)(b)	23-50
§ 23.689(a)(1)(2)(2)(b)(c)(d)(e)(f)	23-7	§ 23.1581(a)(b)(2)(c)(d)(f)	23-50
§ 23.771(a)	23-14	§ 23.1583(h)(m)	23-50
§ 23.777(a)(b)	23-51	§ 23.1585(j)	23-50
§ 23.779(a)	23-51		

An Equivalent Level of Safety (ELOS) has been found for 14 CFR 23.1337(b); Reference ACE-03-01.

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